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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/694,492	10/24/2000	Rajesh Shah	219.39026X00	9470

7590 06/18/2004  
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EXAMINER

MYERS, PAUL R

ART UNIT PAPER NUMBER

2112

DATE MAILED: 06/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/694,492

Applicant(s)

SHAH, RAJESH

Examiner

Paul R. Myers

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 03 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection.

In regards to applicants argument that neither Haley nor Spiegel et al teach the newly added "identifying links and switches traversed in the path to identify all fundamental path elements of the path, and obtaining respective detailed information on properties of each of the fundamental path elements": Haley teaches the Topology request is propagated through the entire network and provides the necessary link data for deducing the entire network topology (Column 8 lines 3-15). This would necessarily include the switches. However for the sake of argument the examiner will cite Golden et al which expressly teaches maintaining a map of paths between endstations including the bandwidth capabilities of all links and switches along the paths (Abstract).

between the source and destination (abstract).

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spiegel et al PN 5,649,108 in view of Haley PN 5,884,036 and Golden et al WO-99/53719-A1.

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In regards to claims 1, 8 and 15-16: Spiegel et al teaches a method comprising: performing a topology discovery of a cluster that includes a plurality of ports (mapping); identifying all possible paths to each port from any other port (map); receiving a request from a client, (source) the request identifying a source and a destination of a path (Column 2 lines 39-41, 62-64 and Column 3 lines 31-36 and 62-67); and sending a response to the client based upon the request, the response identifying one or more links and switches between the source and the destination (Column 2 lines 39-41, 62-64 and Column 3 lines 31-36 and 62-67). Spiegel teaches the switches being ATM fabric switches. Spiegel et al does not expressly teach the requests including a request for information on the properties of the fundamental path element of a path or the properties being expressly of both the links and switches. Haley teaches receiving a request from a client for information on the properties of the fundamental path elements of a path (topology information request). It would have been obvious to include a topology information request in the system of Spiegel et al because this would have allowed for quick network topology determination. Golden et al teaches maintaining a network map of the paths as well as the bandwidth capabilities of all links and switches along the paths (Abstract). It would have been obvious to a person of ordinary skill in the art at the time of the invention to include the properties of the switches in the path because this would have provided for handling changes in switch bandwidth.

In response to claims 2, 11 and 17: Spiegel et al teaches selecting an alternate route.

In response to claims 3-4, 12-13 and 18-19: Spiegel et al teaches using the alternate route.

In response to claims 5, 10 and 20: Both Spiegel et al and Haley teach including Hop count and QOS.

In response to claims 6 and 21: Spiegel et al teaches the use of Virtual ID's.

In response to claims 7, 14 and 22: Spiegel et al teaches identifying the order the links are traversed (figures 6).

In response to claim 9: Spiegel et al teaches the source being a host.

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul R. Myers whose telephone number is 703 305 9656. The examiner can normally be reached on Mon-Thur 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703 305 4815. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRM  
June 14, 2004



PAUL R. MYERS  
PRIMARY EXAMINER